

CLAIMS

1. A compressor, comprising:

a closed container (10);

a compressor element section (14) housed in a lower
5 portion of the closed container (10); and

an electric motor element section (15) housed in an
upper portion of the closed container (10), wherein

the electric motor element section (15) has:

a rotor (25)

10 a stator (26) disposed on an outer periphery of
the rotor (25);

an end plate (1) provided on an end surface of
the rotor (25); and

an oil separation plate (2) installed on the end
15 plate (1), wherein

the end plate (1) has:

a main section (50); and

a projection (3) projecting from the main
section (50), and wherein

20 the oil separation plate (2) has

a through hole (4) in which the projection
(3) is fitted, wherein

the projection (3) has:

a projected part which is projected
25 from the through hole (4) of the oil separation plate (2)

and is crushed to integrate the oil separation plate (2) with the end plate (1); and

a recess (5) on an upper face of the projection (3).

5 2. The compressor according to Claim 1, wherein the projection (3) is partly crushed to remain a portion of the recess.

3. The compressor according to Claim 1, wherein the recess (5) on the projection (3) has a cone shape
10 whose diameter gradually decreases downward.

4. The compressor according to Claim 1, wherein a material of the projection (3) is die casting aluminum alloy.

15 5. A method of plate installation, comprising the steps of:

mounting a plate member on a supporting base plate by fitting a projection of the supporting base plate into a through hole of the plate member, wherein the supporting base plate has a projection having a recess on an upper
20 face of the projection and the supporting base plate is made of aluminum die casting alloy, to project a top end part of the projection from the through hole; and

crushing the projected part of the projection from the through hole, except for a portion of the recess on the
25 projection, by applying a downward pressing force to the

projected part so as to integrate the plate member with the supporting base plate.